

What is claimed is :

1. A wireless device including :  
at least an antenna ; and  
5 at least a conductive ground serving as a ground, through which a high frequency current flows, and said conductive ground having at least a side which is approximately one quarter wavelength of a radio wave transmitted from said antenna, said at least side of said conductive ground having a feeding point, at which said antenna is electrically connected to  
10 said conductive ground,  
wherein said feeding point is positioned asymmetrical to said conductive ground in any directions included in a plane parallel to said conductive ground.
- 15 2. The wireless device as claimed in claim 1, wherein said feeding point on said side is positioned closer to one end of said side than a center position.
3. The wireless device as claimed in claim 1, wherein said high  
20 frequency current flowing through said conductive ground has an asymmetrical distribution of current over said conductive ground.
4. The wireless device as claimed in claim 1, wherein said antenna extends in straight from said feeding point in a direction perpendicular to

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said side and included in said plane which includes said conductive ground.

5. The wireless device as claimed in claim 1, wherein said antenna comprises a minority part and a majority part bounded by a bending portion  
5 from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and said majority part extends in straight from said bending portion in a direction parallel to said side and included in said plane which includes  
10 said conductive ground.

6. The wireless device as claimed in claim 1, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said  
15 feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and said majority part extends from said bending portion in generally U-shape which is included in a plane both vertical to said plane which includes said conductive ground and also parallel to said side.

20 7. The wireless device as claimed in claim 1, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said

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side and included in said plane which includes said conductive ground, and said majority part extends from said bending portion in open-loop shape which is included in a plane both vertical to said plane which includes said conductive ground and parallel to said side.

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8. The wireless device as claimed in claim 1, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and said majority part comprises a plate extending from said bending portion in a plane both vertical to said plane which includes said conductive ground and also parallel to said side.

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9. The wireless device as claimed in claim 1, wherein said antenna is positioned in a bottom side of said wireless device.

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10. The wireless device as claimed in claim 1, wherein said antenna comprises a conductive pattern which is integrated with said conductive ground on a circuit board accommodated in a case of said wireless device.

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11. The wireless device as claimed in claim 1, wherein said antenna comprises a conductive plate provided on an inner wall of a case of said wireless device.

12. The wireless device as claimed in claim 1, wherein said conductive ground comprises a conductive pattern on a circuit board accommodated in a case of said wireless device.

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13. The wireless device as claimed in claim 12, wherein said antenna is accommodated in a case of said wireless device.

14. The wireless device as claimed in claim 13, wherein said  
10 antenna is accommodated in a bottom space defined between a bottom of said circuit board and a bottom wall of said case.

15. The wireless device as claimed in claim 14, wherein a frequency of said radio wave is not lower than 1GHz.

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16. The wireless device as claimed in claim 15, wherein said wireless device is a mobile telephone device.

17. A wireless device including:  
20 at least an antenna ; and  
at least a conductive ground serving as a ground, through which a high frequency current flows, and said conductive ground having at least a side which is approximately one quarter wavelength of a radio wave transmitted from said antenna, said at least side of said conductive ground

having a feeding point, at which said antenna is electrically connected to said conductive ground,

wherein said feeding point on said side is positioned closer to one end of said side than a center position, so that said feeding point is positioned asymmetrical to said conductive ground in any directions included in a plane parallel to said conductive ground, whereby said high frequency current flowing through said conductive ground has an asymmetrical distribution of current over said conductive ground.

10 18. The wireless device as claimed in claim 17, wherein said antenna extends in straight from said feeding point in a direction perpendicular to said side and included in said plane which includes said conductive ground.

15 19. The wireless device as claimed in claim 17, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said  
20 conductive ground, and said majority part extends in straight from said bending portion in a direction parallel to said side and included in said plane which includes said conductive ground.

20. The wireless device as claimed in claim 17, wherein said antenna

comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and  
5 said majority part extends from said bending portion in generally U-shape which is included in a plane both vertical to said plane which includes said conductive ground and also parallel to said side.

10 21. The wireless device as claimed in claim 17, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and  
15 said majority part extends from said bending portion in open-loop shape which is included in a plane both vertical to said plane which includes said conductive ground and parallel to said side.

20 22. The wireless device as claimed in claim 17, wherein said antenna comprises a minority part and a majority part bounded by a bending portion from said minority part, and said minority part extends in straight from said feeding point to said bending portion in a direction perpendicular to said side and included in said plane which includes said conductive ground, and  
said majority part comprises a plate extending from said bending portion in a plane both vertical to said plane which includes said conductive ground

and also parallel to said side.

23. The wireless device as claimed in claim 17, wherein said antenna is positioned in a bottom side of said wireless device.

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24. The wireless device as claimed in claim 17, wherein said antenna comprises a conductive pattern which is integrated with said conductive ground on a circuit board accommodated in a case of said wireless device.

10 25. The wireless device as claimed in claim 17, wherein said antenna comprises a conductive plate provided on an inner wall of a case of said wireless device.

15 26. The wireless device as claimed in claim 17, wherein said conductive ground comprises a conductive pattern on a circuit board accommodated in a case of said wireless device.

27. The wireless device as claimed in claim 26, wherein said antenna is accommodated in a case of said wireless device.

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28. The wireless device as claimed in claim 27, wherein said antenna is accommodated in a bottom space defined between a bottom of said circuit board and a bottom wall of said case.

29. The wireless device as claimed in claim 28, wherein a frequency of said radio wave is not lower than 1GHz.

30. The wireless device as claimed in claim 29, wherein said wireless  
5 device is a mobile telephone device.

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